

**BRUHAT BENGALURU MAHANAGARA PALIKE
YELAHANKA ZONE**

**NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT VENKATALA JANATHA COLONY IN WARD
0.01 OF YELAHANKA SUB-DIVISION**

Estimate Cost Rs.							50.00	Lakhs
Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5. No.5/Item No. 2.3)								
Janatha Colony Main Road	Cum							
for New RCC Drain		1	175.00	1.10	1.20	231.00		
						231.00	200.34	46278.54
Basic Rate	189.00							
Area Weightage @ 6%	11.34							
Total	200.34							
KSRB 2-1.1 : Earthwork in surface excavation in ordinary soil for levelling and lowering the ground manually (other than foundation of buildings, culverts, road drains and trenches of pipe lines and cables) and removing the excavated stuff to a distance not exceeding 50m and lift upto 1.5m, excavated surface leveled and neatly dressed, disposed earth to be leveled after breaking of clods and neatly dressed as per specifications, specification. No. KBS 2.1 (a) / 2.3.1 (P.5/I.2.1)								
for Road	Cum							
Janatha Colony Main Roads		1	175.00	3.60	0.50	315.00		
		1	155.00	3.80	0.50	294.50		
Cross Road		1	25.00	4.00	0.50	50.00		
Road Cut portion		1	175.00	0.60	0.30	31.50		
		1	155.00	0.60	0.30	27.90		
Cross Road		1	70.00	3.90	0.25	68.25		
						787.15	166.42	130997.50
Basic Rate	157.00							
Area Weightage @ 6%	9.42							
Total	166.42							
KSRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No 17.1)								
	Cum							
						Qty Vide Item No.1+2	1018.15	100.00
Average Weight of Earth	1.28							101815.00
Tonne/Km								
Basic Rate Lead Charges for								
10.00 Kms (2.50X1.28X10.00)	32.00							
Add loading and unloading Item								
No 17.1)	68.00							
Total	100.00							

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
KSRRB M400-6.1. Construction of granular sub-base by providing close graded material, mixing in a mechaical mix plant at OMC, carriage of mixed material to work site, spreading in uniform layers with motor grader on prepared surface and compacting with vibratory power roller to achieve the desired density, complete as per specifications. A. Plant Mix Method. Close graded granular sub-base material as per 400-1 For Grading- II Material (P.No.155 It.No.20.4.2)								

	Cum							
Road Cut portion		1	175.00	0.60	0.20	21.00		
		1	155.00	0.60	0.20	18.60		
Cross Road		1	25.00	0.60	0.20	3.00		
Janatha Colony Main Roads		1	175.00	3.60	0.20	126.00		
		1	155.00	3.80	0.20	117.80		
						286.40	1665.26	476930.46
Basic Rate	1571.00							
Area Weightage @ 6%	94.26							
Total	1665.26							

KSRB 4-1.3: Providing and laying in position plain cement concrete of mix 1:4:8 with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregates @ 0.57cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No.KBS 4.1, 4.2 (P.12/I.4.3)

	Cum							
Janatha Colony (for Drain)		1	175.00	1.10	0.15	28.88		
for Roads		1	175.00	3.60	0.15	94.50		
		1	155.00	3.80	0.15	88.35		
Cross Road		1	25.00	4.00	0.15	15.00		
Cross Road		1	70.00	3.90	0.15	40.95		
						267.68	5159.02	1380940.68
Basic Rate	4867.00							
Area Weightage @ 6%	292.02							
Total	5159.02							

KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3-do-TMT Bars Fe 500 P.17/It No.4.46.2 (rates effects from 01-07-2017)

	tonne	No. of Bars	Width/Lengt	Rmtr	Kg/Rmtr	Total in Kg		
10mm dia main bar spacing at 150mm c/c	2	1167	2.10	4900.00	0.617	3023.30		
8mm dia dist bar spacing at 150mm c/c	2	14	175.00	4900.00	0.395	1935.50		
					in Kg	4958.80		
					in Qtl	49.5880		
					in tonne	4.9588	64243.42	318570.27
Basic Rate	60607.00							
Area Weightage @ 6%	3636.42							
Total	64243.42							

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Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.21 (P.15 / I.4.31)								
	Sqm							
		2x2	175.00		0.60	420.00		
						420.00	310.58	130443.60
Basic Rate	293.00							
Area Weightage @ 6%	17.58							
Total	310.58							
Providing & laying in position reinforced cement concrete of Design mix M20 with OPC cement @ 320kgs , with 20mm and down size graded granite metal, coarse aggregated @ 0.69cum , and fine aggregated @ 0.460cum, with superplasticiser @ 3lts confirming to IS9103-1999 Reaffirmed -2008 machine mixed concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, bed blocks, anchor blocks, plinths etc., including cost of all materials, labour, HOM of machinery, curing, complete but excluding cost of reinforcement as per specifications. specifications No. KBS 4.1, 4.6 (P.No.13/ I.No.4.11)								
	Cum							
bed		1	175.00	1.10	0.15	28.88		
Side wall		2	175.00	0.15	0.60	31.50		
						60.38	6371.66	384688.97
Basic Rate	6011.00							
Area Weightage @ 6%	360.66							
Total	6371.66							
Providing and fixing RCC precast Slabs of 0.10 m thick of CC 1:2:4 with 20 mm and down size graded granite metal , machine mixed , including cost of all material , labour , HOM of Machinery , curing complete								
for Drain covering slab		1	16.00	0.90		14.40		
for New Rcc Drain		1	175.00	0.90		157.50		
	Sqm					171.90	2100.00	360990.00
Data Rate	2100.00							
Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC) M20 for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, for raft foundation, column footing, main and secondary beams with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Page No.18 / Item No. 4.48)								
Janatha Colony Main Roads		1	175.00	3.60	0.15	94.50		
		1	155.00	3.80	0.15	88.35		
Cross Road		1	25.00	4.00	0.15	15.00		
Cross Road		1	70.00	3.90	0.15	40.95		
	Cum					238.80	6231.74	1488139.51
Basic Rate	5879.00							
Area Weightage @ 6%	352.74							
Total	6231.74							

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Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator HOM of machinery Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift (P.177/1.22.7)	Sqm	1	175.00	3.60		630.00		
		1	155.00	3.80		589.00		
Cross Road		1	25.00	4.00		100.00		
		1	70.00	3.90		273.00		
Basic Rate	90.00					1592.00	95.40	151876.80
Area Weightage @ 6%	5.40							
Total	95.40							

Providing Groove cutting for width of 5mm to 10mm and depth 80mm-100mm including cost of cutting machine generator and HOM of machinery including cost of blade, coolant etc., including cleaning aof groove & providing sand and hot bitumen fillars and filler metal etc., including cost of conveyance of all materials, labour, lead and lift charges and all the other incidental charges as per drawing and as per specifications, MORTH specification. (P.178/1.22.8)

for road	m	60	3.60			216.00		
Basic Rate	115.00					216.00	121.90	26330.40
Area Weightage @ 6%	6.90							
Total	121.90							
Miscellaneous and unforeseen charges	LS							1998.00
Grand Total Amount								5000000.00

(Rupees Fifty Lakhs Only)

CERTIFICATE

The site has been inspected and the work is found to be necessary.
 The rates adopted are as per PW,P IWTD SR of 2016-17 and data rate of Bangalore Circle.
 The provisions were made in this estimate are necessary and adequate.
 The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.

Assistant Engineer
 Ward No.01
 Sanctioned For Rs. 50.00 lacs

fifty lakhs only

Job no-001-18-000003

Executive Engineer
 Yelahanka Division
 B.B.M.P

Assistant Executive Engineer
 Yelahanka Sub-Division
 B.B.M.P

Technical Sanction
 Accorded For 50.00 lakhs
 Head of A/C P.18.78
 CER NO : 314 Dt: 10/11/17

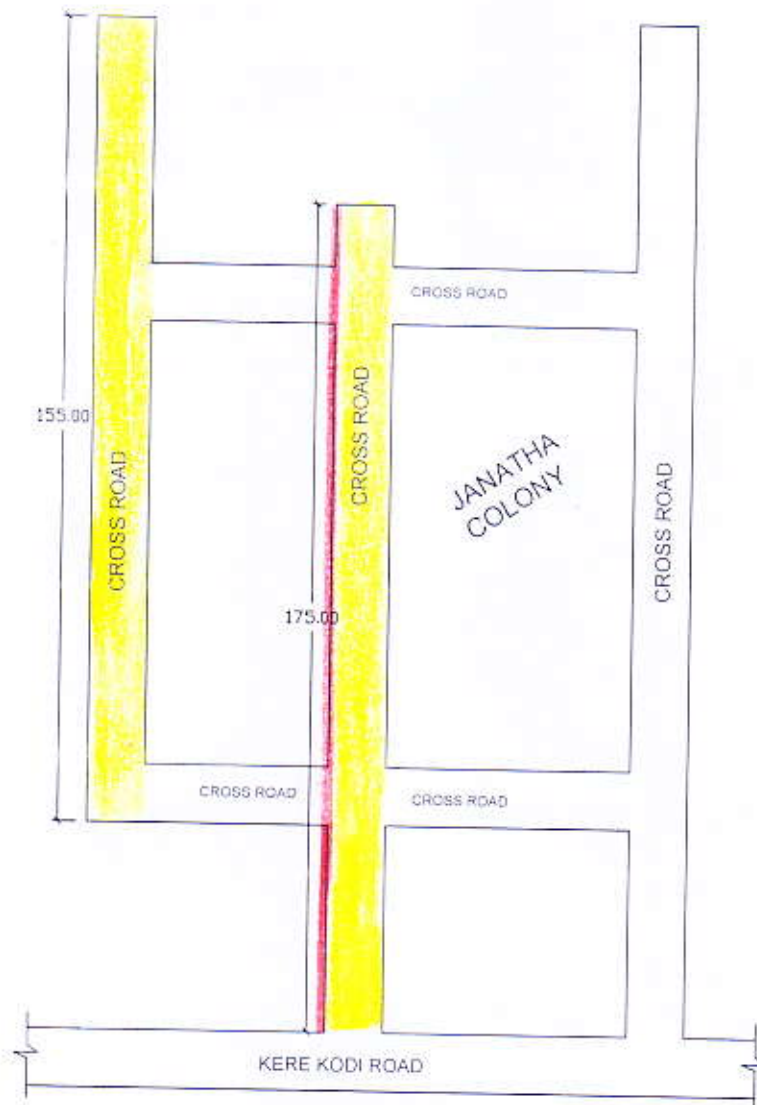
TA CE (YNK)

J.C(Y) P.D. / AS 149/17-18
 10-11-2017
 50.00 lacs.

Commissioner
 (Tone)
 10-11-2017

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT VENKATALA
JANATHA COLONY IN WARD NO.01 OF YELAHANKA
SUB-DIVISION

KEY : NOT TO SCALE



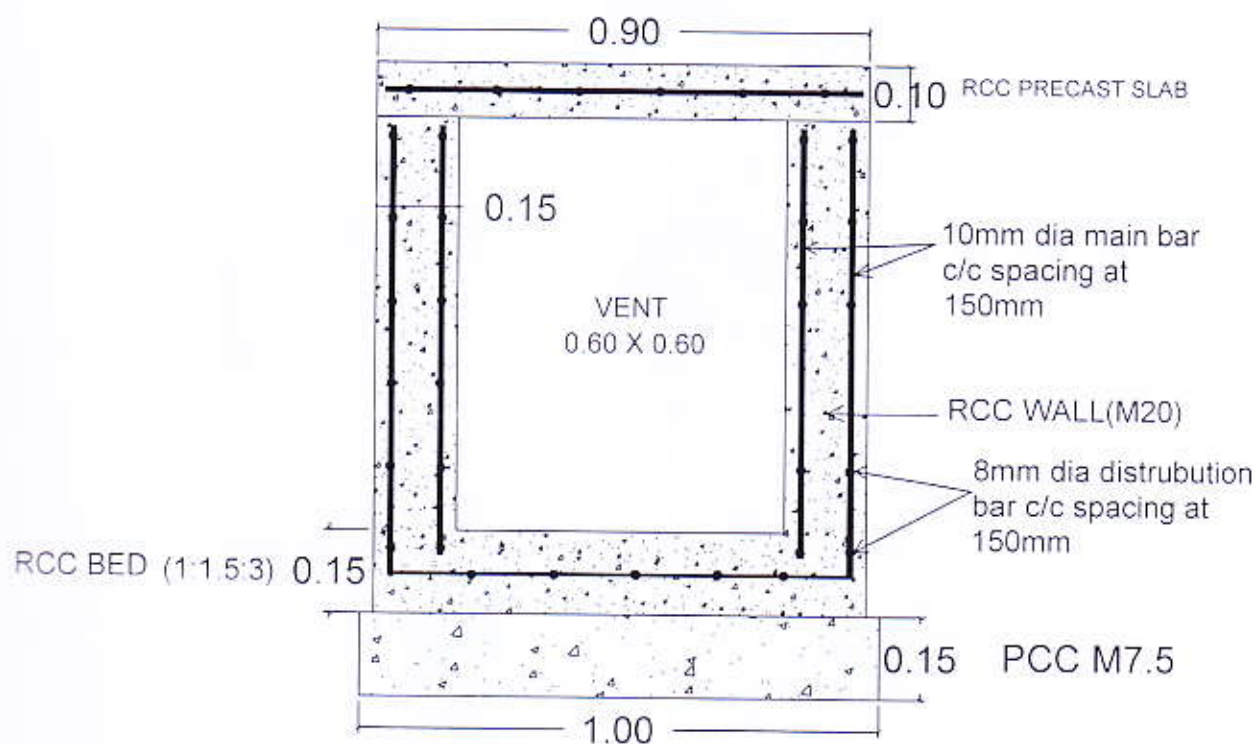
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Assistant Engineer
Ward No.01
B.B.M.P


Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT VENKATALA JANATHA COLONY IN WARD NO.01 OF YELAHANKA SUB-DIVISION

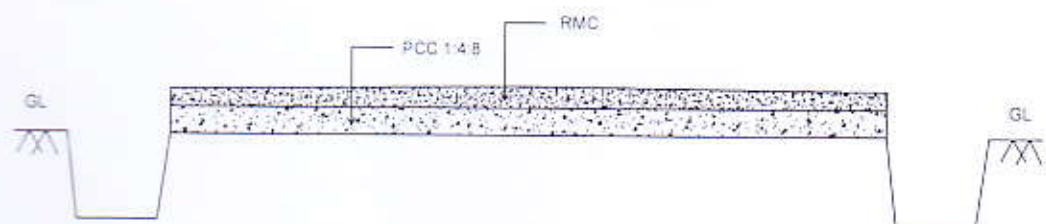


CROSS SECTION OF RCC DRAIN

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NAME OF WORK : IMPROVEMENTS TO ROADS AND DRAINS AT VENKATALA
JANATHA COLONY IN WARD NO.01 OF YELAHANKA
SUB-DIVISION



TYPICAL CROSS SECTION OF CC ROAD

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AREA: 10.7 Sq. Km

Category	No. of Properties	Area (Sq. Km)
Residential		
Commercial		
Industrial		
Public Office		
Religious		
Health		
Education		
Recreation		
Other		
Total		

Total Length of Roads (in Km):

Category	Length (Km)
Major Road	
Intermediate Road	
Minor Road	
Total	

Legend

- Major Road
- Intermediate Road
- Minor Road